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United States Patent [19] Giorgio

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[54] APPARATUS FOR OPTIMIZING THE ROTATIONAL SPEED OF COOLING FANS

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[58] Field of Search **361/676, 683, 361/687, 690, 695, 752, 600, 688, 694, 697; 364/483; 702/64, 65; 318/806, 811, 254, 432**

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[57] ABSTRACT

Apparatus for controlling cooling fans for variable electrical loads. A controller monitors cooling fan output, ambient temperature and the electrical load. The controller then matches the fan speed and resulting cooling to the existing electrical load and ambient temperature. As a consequence, fan speed is maintained at a minimum necessary to sustain appropriate cooling levels. This minimizes the generation of structureborne and airflow noise.

16 Claims, 3 Drawing Sheets

